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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Fast detection of communication patterns in distributed executions](#)**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2 [Managing communications: Contact management: identifying contacts to support long-term communication](#)**

Steve Whittaker, Quentin Jones, Loren Terveen

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**

Publisher: ACM Press

Full text available: [pdf\(206.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Much of our daily communication activity involves managing interpersonal communications and relationships. Despite its importance, this activity of contact management is poorly understood. We report on field and lab studies that begin to illuminate it. A field study of business professionals confirmed the importance of contact management and revealed a major difficulty: selecting important contacts from the large set of people with whom one communicates. These interviews also showed that communic ...



**Keywords:** PDAs, address books, asynchronous communication, communication history, contact management

**3 [The relational model for database management: version 2](#)**


E. F. Codd

January 1990



## Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.

Full text available:  [pdf\(28.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**From the Preface (See Front Matter for full Preface)**

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

4 On secure and pseudonymous client-relationships with multiple servers




Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**

Volume 2 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(161.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

**Keywords:** Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

5 All I really need to know about pair programming I learned in kindergarten



Laurie A. Williams, Robert R. Kessler

May 2000 **Communications of the ACM**, Volume 43 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(137.43 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)  
 [html\(36.15 KB\)](#)

6 Recent advances in haptic rendering & applications: Sensation preserving simplification for haptic rendering



Miguel A. Otaduy, Ming C. Lin

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

**Publisher:** ACM Press

Full text available:  [pdf\(714.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a novel "sensation preserving" simplification algorithm for faster collision queries between two polyhedral objects in haptic rendering. Given a polyhedral model, we construct a multiresolution hierarchy using "filtered edge collapse", subject to constraints imposed by collision detection. The resulting hierarchy is then used to compute fast contact response for haptic display. The computation model is inspired by human tactual perception of contact information. We have successfully ...

**Keywords:** collision detection, haptics, level-of-detail algorithms

## 7 Social matching: A framework and research agenda



Loren Terveen, David W. McDonald

September 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12  
Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(199.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Social matching systems bring people together in both physical and online spaces. They have the potential to increase social interaction and foster collaboration. However, social matching systems lack a clear intellectual foundation: the nature of the design space, the key research challenges, and the roster of appropriate methods are all ill-defined. This article begins to remedy the situation. It clarifies the scope of social matching systems by distinguishing them from other recommender systems ...

**Keywords:** Human-computer interaction, collaborative filtering, information visualization, recommender systems, social networks

## 8 Experiments in social data mining: The TopicShop system



Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman

March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(377.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

*Social data mining systems* enable people to share opinions and benefit from each other's experience. They do this by mining and redistributing information from computational records of social activity such as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces based on the information improve user task performance? We report here on *TopicShop*, a system ...

**Keywords:** Cocitation analysis, collaborative filtering, computer-supported cooperative work, information visualization, social filtering, social network analysis

## 9 Macintosh human interface guidelines



Apple Computer, Inc.

January 1992 Book

**Publisher:** Addison-Wesley Publishing Company

Full text available: [pdf\(37.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Macintosh Human Interface Guidelines describes the way to create products that optimize the interaction between people and Macintosh computers. It explains the whys and hows of the Macintosh interface in general terms and specific details.

Macintosh Human Interface Guidelines helps you link the philosophy behind the Macintosh interface to the actual implementation of interface elements. Examples from a wide range of Macintosh products show good human interface design, including individual ...


## 10 Cryptography and data security



Dorothy Elizabeth Robling Denning

January 1982 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.


Full text available:  [pdf\(19.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

**11 Posters: The connector: facilitating context-aware communication**

 M. Danninger, G. Flaherty, K. Bernardin, H. K. Ekenel, T. Köhler, R. Malkin, R. Stiefelhagen, A. Waibel

October 2005 **Proceedings of the 7th international conference on Multimodal interfaces ICMI '05**

**Publisher:** ACM Press

Full text available:  [pdf\(580.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the Connector, a context-aware service that intelligently connects people. It maintains an awareness of its users' activities, preoccupations and social relationships to mediate a proper connection at the right time between them. In addition to providing users with important contextual cues about the availability of potential callees, the Connector adapts the behavior of the contactee's device automatically in order to avoid inappropriate interruptions. To acquire relevant context info ...

**Keywords:** context-aware communication, multimodal interfaces

**12 A framework for adaptive UbiComp applications based on the jack-in-the-net architecture**

Tomoko Ito, Satoshi Tanaka, Tatsuya Suda, Tomonori Aoyama  
May 2004 **Wireless Networks**, Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(502.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Jack-in-the-Net Architecture (Ja-Net) that we present in this paper provides a unique and promising approach to design ubiquitous computing applications that can scale, self-organize, and adapt to short- and long-term changes in network conditions and user preferences. In Ja-Net, network applications are implemented by a group of distributed, autonomous entities called the cyber-entities. Each cyber-entity implements a function component related to its service and follows simple behavior rule ...

**Keywords:** mobile agent, relationship, service emergence, ubiquitous computing, user preferences

**13 Discovering user access pattern based on probabilistic latent factor model**

Guandong Xu, Yanchun Zhang, Jiangang Ma, Xiaofang Zhou

January 2005 **Proceedings of the 16th Australasian database conference - Volume 39 ADC '05**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(307.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

There has been an increased demand for characterizing user access patterns using web mining techniques since the informative knowledge extracted from web server log files can not only offer benefits for web site structure improvement but also for better understanding of user navigational behavior. In this paper, we present a web usage mining method, which utilize web user usage and page linkage information to capture user access pattern based on Probabilistic Latent Semantic Analysis (PLSA) mode ...

**Keywords:** probabilistic latent semantic model, user profile, web linkage information, web usage mining

14 ITiCSE 2005 working group reports: Facilitating student learning through study abroad and international projects



Ursula Fuller, June Amillo, Cary Laxer, W. Michael McCracken, Joseph Mertz  
December 2005 **ACM SIGCSE Bulletin**, Volume 37 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(308.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer science is inherently international but its effective application depends on an understanding of the local culture in which it is being used. Students and faculty need to be prepared to operate in this global environment. This ITiCSE working group report discusses why an international dimension is an important component of a computer science, student's education. It describes ways to add an international dimension to student learning and provides several case studies as examples. Barrie ...

**Keywords:** collaborative projects, international experiences, student/faculty exchanges, study abroad

15 Secure authentication system for public WLAN roaming

Ana Sanz Merino, Yasuhiko Matsunaga, Manish Shah, Takashi Suzuki, Randy H. Katz  
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available: [pdf\(2.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A serious challenge for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication schemes, which may vary from one provider to the next. We have designed and implemented a comprehensive single sign-on (SSO) authentication architecture that confederates WLAN service providers through trusted identity providers. Users select the app ...

**Keywords:** authentication, link layer security, policy control, roaming, wireless LAN

16 Two-handed virtual manipulation



Ken Hinckley, Randy Pausch, Dennis Proffitt, Neal F. Kassell  
September 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5  
Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We discuss a two-handed user interface designed to support three-dimensional neurosurgical visualization. By itself, this system is a "point design," an example of an advanced user interface technique. In this work, we argue that in order to understand

why interaction techniques do or do not work, and to suggest possibilities for new techniques, it is important to move beyond point design and to introduce careful scientific measurement of human behavioral principles. In particula ...

**Keywords:** bimanual asymmetry, haptic input, input devices, three-dimensional interaction, two-handed interaction, virtual manipulation

17 Services: Secure authentication system for public WLAN roaming



Yasuhiko Matsunaga, Ana Sanz Merino, Takashi Suzuki, Randy H. Katz

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

**Publisher:** ACM Press

Full text available: [pdf\(248.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A serious impediment for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication schemes which may vary from one provider to the next. We have designed and implemented a comprehensive single sign-on (SSO) authentication architecture that confederates WLAN service providers through trusted identity providers. Users select the app ...

**Keywords:** authentication, hotspot, link layer security, policy control, roaming, single sign-on, wireless LAN

18 Conversations with Clement Mok and Jakob Nielsen, and with Bill Buxton and Clifford



Nass

Richard I. Anderson

January 2000 **interactions**, Volume 7 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(986.68 KB\)](#) [html\(148.66 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

19 Working together: the library and the computer center



George M. Telatnik, Joel A. Cohen

November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services SIGUCCS '93**

**Publisher:** ACM Press

Full text available: [pdf\(808.83 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Applications and system issues: User privacy-preserving identity data dependencies



Samir Saklikar, Subir Saha

November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**

**Publisher:** ACM Press

Full text available: [pdf\(530.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Identity Federation technologies have enabled users to leverage their relationships with an Identity Provider (IdP) into a Service Provider's (SP) domain. They allow user-initiated and IdP-controlled sharing of authentication information, attributes and authorization policies, allowing users to get benefits like Single Sign On (SSO) and attribute linking

across the different domains. Federation-based Identity Services have enabled a standardized mechanism of sharing a particular type of user ide ...





**Keywords:** SAML, digital identity, identity federation, liberty alliance, policy, privacy

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